TOEDZO" 6E98686O

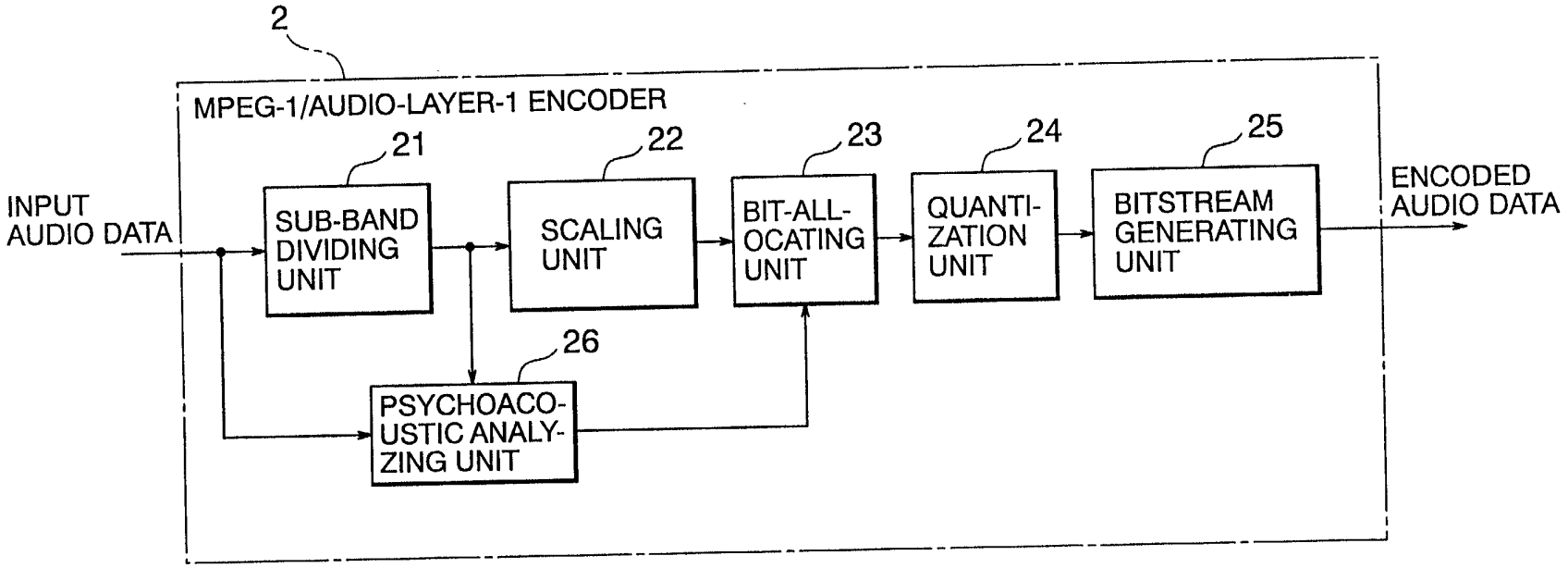

FIG. 1
(PRIOR ART)

EP 0 620 657 B1

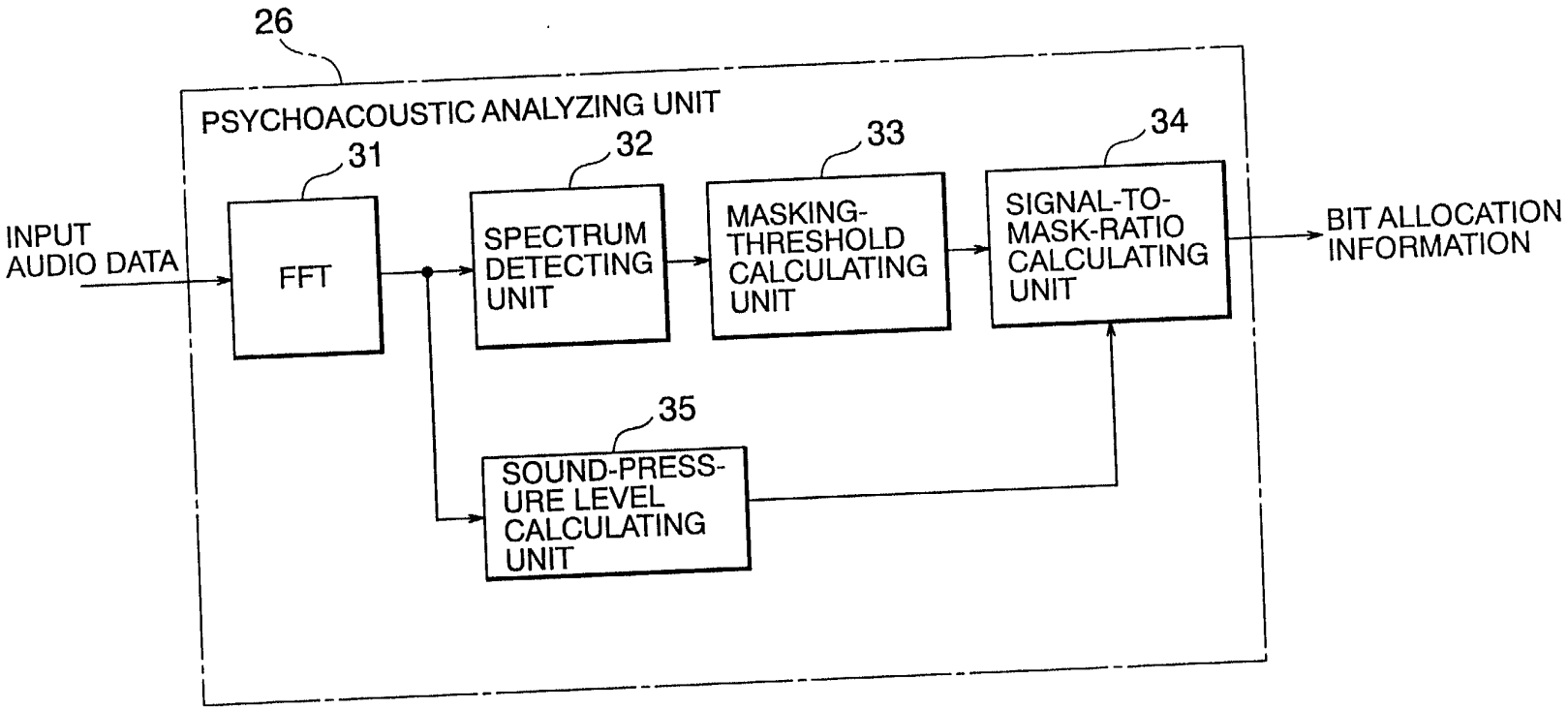

FIG. 2
(PRIOR ART)

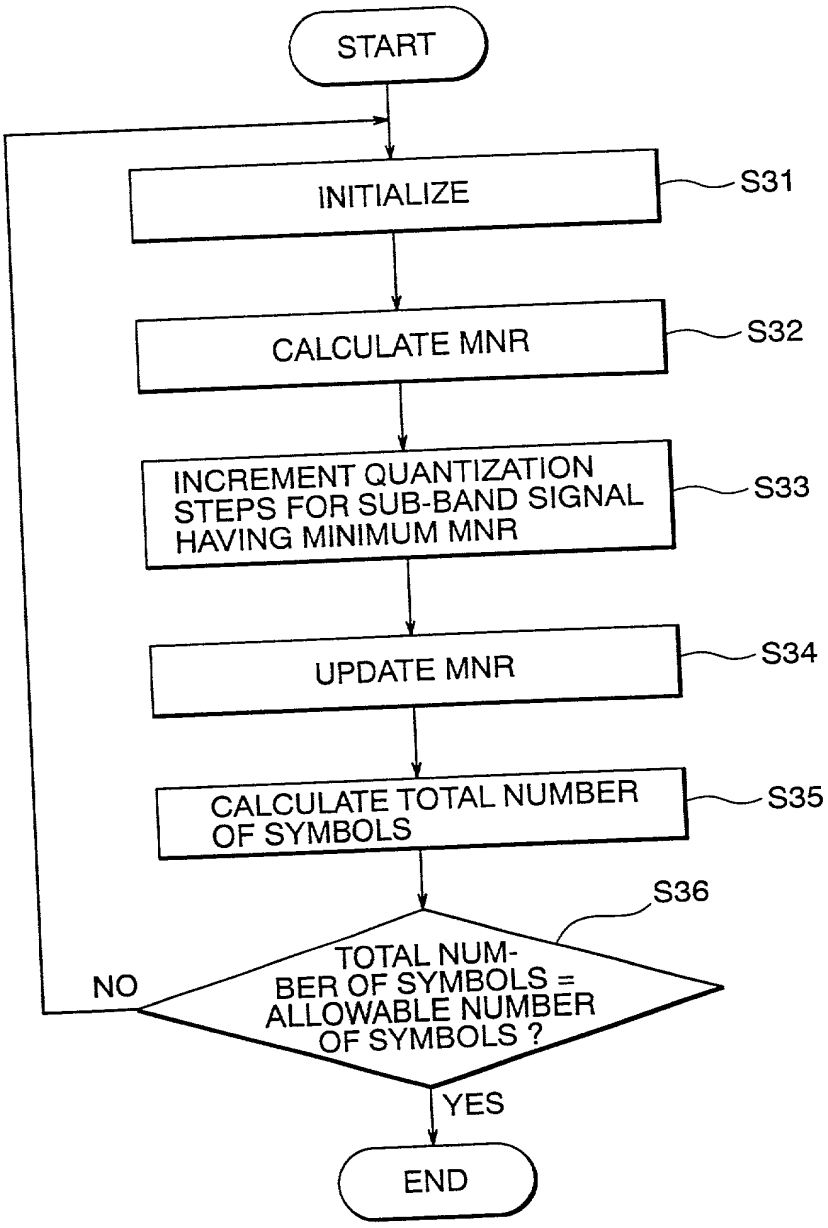

FIG. 3
(PRIOR ART)

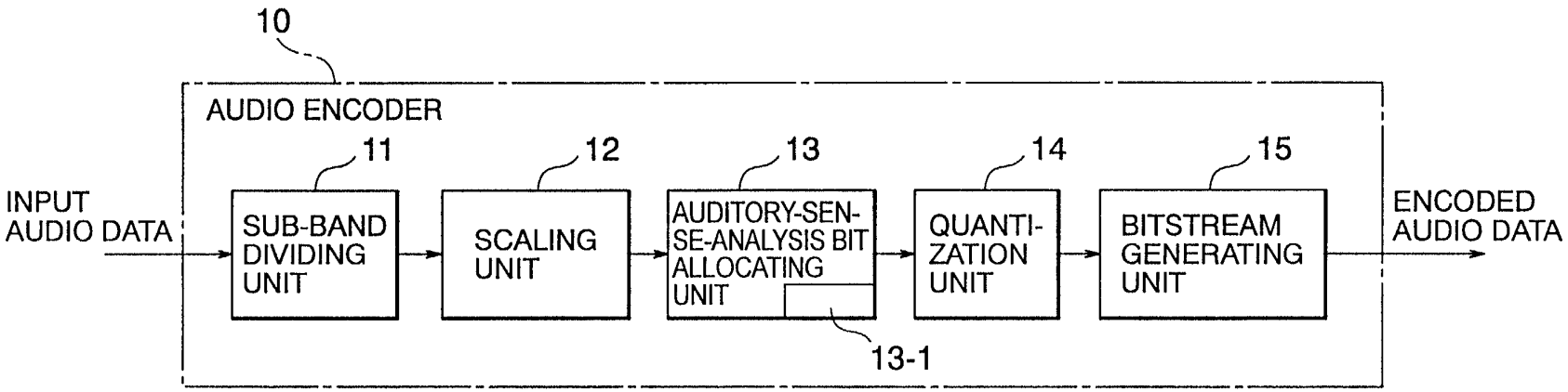
10
AUDIO ENCODER
11
12
13
14
15
INPUT AUDIO DATA
SUB-BAND DIVIDING UNIT
SCALING UNIT
AUDITORY-SENSE-ANALYSIS BIT ALLOCATING UNIT
QUANTIZATION UNIT
BITSTREAM GENERATING UNIT
ENCODED AUDIO DATA
13-1

FIG. 4

EP 0 762 670 A2

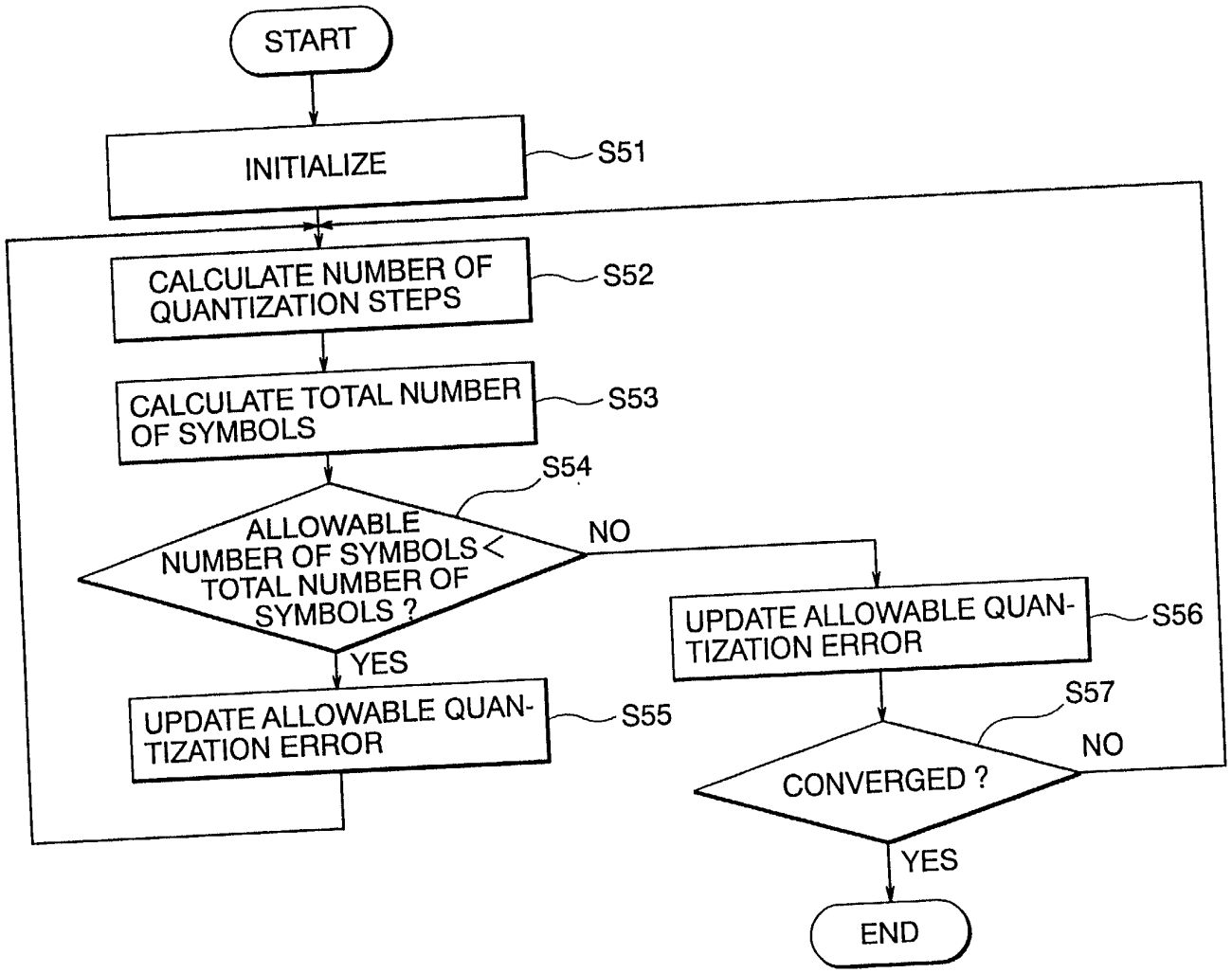

FIG. 5

SUB-BAND SIGNAL (sb)	WEIGHTING COEFFICIENT Wweight
0	1.3
1	1.2
2	1.1
3	1.1
4	1.1
5	1.0
6	1.0
7	1.2
8	1.2
9	1.2
10	1.2
11	1.2
12	1.3
13	1.3
14	1.5
15	1.5
16	1.5
17	1.5
18	1.7
19	1.9
20	4.5
21	4.5
22	4.5
23	4.5
24	4.5
25	5.0
26	5.0
27	5.0
28	5.0
29	5.0
30	5.0
31	5.0

FIG. 6

NUMBER OF QUANTIZATION STEPS	NUMBER OF BITS
0	0
3	2
7	3
15	4
31	5
63	6
127	7
255	8
511	9
1023	10
2047	11
4095	12
8191	13
16383	14
32767	15

FIG. 7

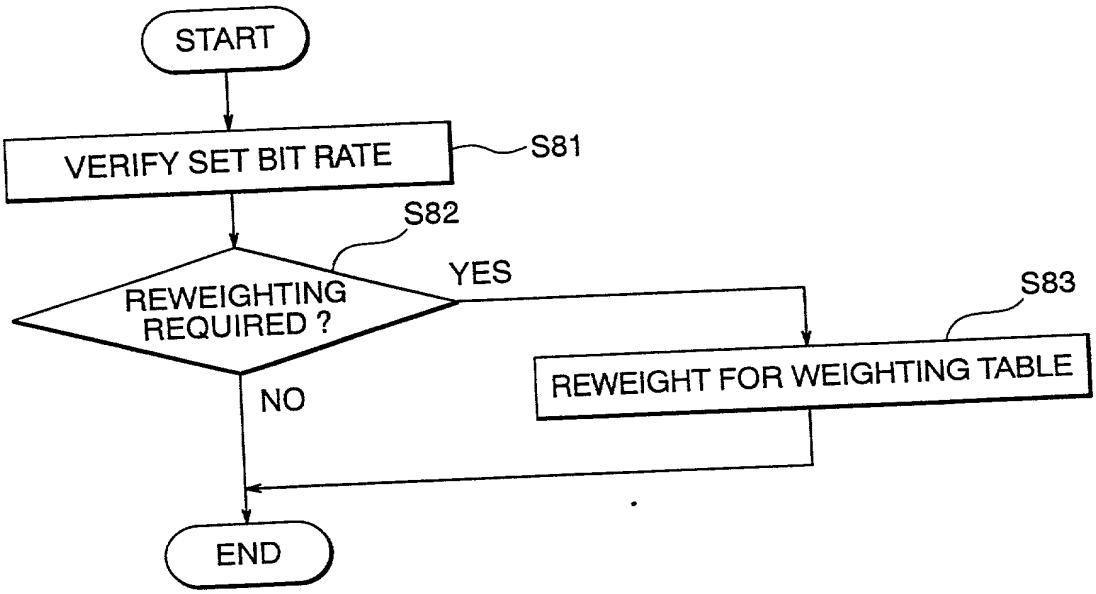

FIG. 8

SUB-BAND SIGNAL (sb)	WEIGHTING COEFFICIENT Wweight
0	1.0
1	1.0
2	1.0
3	1.0
4	1.0
5	1.0
6	1.1
7	1.2
8	1.5
9	1.5
10	1.5
11	1.5
12	1.5
13	1.5
14	1.5
15	1.5
16	2.5
17	2.5
18	2.5
19	2.5
20	2.5
21	2.5
22	2.5
23	2.5
24	3.0
25	3.0
26	3.0
27	3.0
28	3.0
29	3.0
30	3.0
31	3.0

FIG. 9

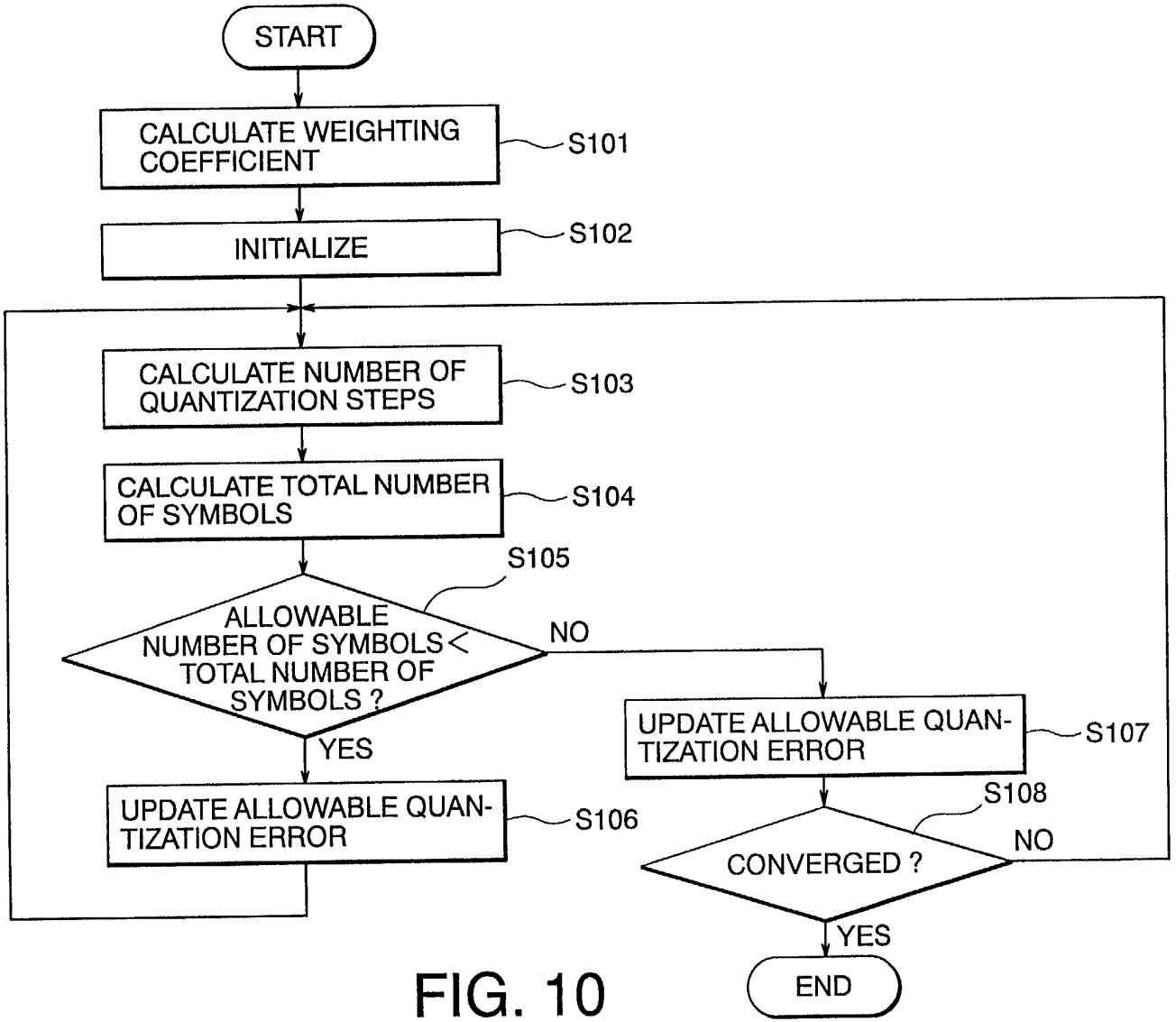
START
CALCULATE WEIGHTING COEFFICIENT
S101
INITIALIZE
S102
CALCULATE NUMBER OF QUANTIZATION STEPS
S103
CALCULATE TOTAL NUMBER OF SYMBOLS
S104
S105
ALLOWABLE NUMBER OF SYMBOLS < TOTAL NUMBER OF SYMBOLS ?
NO
YES
UPDATE ALLOWABLE QUANTIZATION ERROR
S106
UPDATE ALLOWABLE QUANTIZATION ERROR
S107
S108
CONVERGED ?
NO
YES
END

FIG. 10